

ABSTRACT OF THE DISCLOSURE

In order to reduce the number of parts and decrease the thickness of each part, while still obtaining a sufficient strength, with a simple structure, an eccentric rotor R in which an axial-air-gap magnet 8 and an arched weight 9 are provided in a rotor yoke 6 is rotatably mounted on a shaft 2 fixed to a yoke bracket 1, and a stator base 3 is attached as an auxiliary component to the yoke bracket comprising a magnetic portion 1b receiving the magnetic field of the magnet and a nonmagnetic portion 1e. One Hall sensor H and a drive circuit member D for receiving the output of the Hall sensor are disposed so that they do not overlap, in a plan view thereof, the stator base 3 having single-phase air-core armature coils installed thereof, and a cover member 10 covering those components is welded at the opening portion to the outer periphery of the yoke bracket.